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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/805,877	03/15/2001	Dominic Yip	169.1644	3507
5514	7590 07/02/2004		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			KASSA, YOSEF	
	, NY 10112 ART UNIT		ART UNIT	PAPER NUMBER
			2625	7
			DATE MAILED: 07/02/2004	, /

Please find below and/or attached an Office communication concerning this application or proceeding.

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۵ .	Application No.	Applicant(s)	
	09/805,877	YIP, DOMINIC	
Office Action Summary	Examiner	Art Unit	
	YOSEF KASSA	2625	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MOI tatute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 1	15 March 2001.		
	This action is non-final.		
3) Since this application is in condition for all		ters, prosecution as to the merits is	
closed in accordance with the practice und		•	
Disposition of Claims			
4) ☐ Claim(s) 1-26 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	ndrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exar	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co		• •	
11) The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>5</u>. 		s)/Mail Date nformal Patent Application (PTO-152) 	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shin et al (U.S. Patent 6,389,417), and further in view Ganesh et al (U.S. Patent 5,802,369).

With regard to claim 1, Shin et al discloses retrieving a plurality of previous partial results from a first or second storage, i.e., database, (see col. 1, lines 35-44); inputting a current group of adjacent pixels (see col. 1, lines 45-49); computing, i.e., analyzed, coefficients utilizing said current group of adjacent pixels and said plurality of previous partial results (see col. 2, lines 1-5); outputting said coefficients (see col. 2, lines 15-21); and storing a plurality of current partial results in said first storage if current group is not the last group in the band (see col. 3, lines 44-52).

Shin et al does not explicitly call for a second storage system. However, in the same field of endeavor, Ganesh et al discloses a communication channels storage memory (see Fig. 2, item 29). At the time or the invention, it would have been obvious to incorporate the teaching of Ganesh et al image storage system into Shin et al system. The motivation for doing so is to store coefficient form modules, which

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represent compressed signal.

With regard to claim 2, Shin et al discloses first storage is a local storage (see Fig. 1, item 146).

With regard to claim 3, Shin et al is silent about second storage is a remote storage. However, at the same field of endeavor, Ganesh et al discloses a communication channels storage memory (see Fig 2, item 29). At the time or the invention, it would have been obvious to incorporate the teaching of Ganesh et al image storage system into Shin et al system. The motivation for doing so is to store coefficient form modules, which represent compressed signal.

With regard to claim 4, Shin et al discloses digital image is all original image and said wavelet filtering performs a forward wavelet transform (see col. 7, lines 24-30).

Claim 5 is similarly analyzed as claim 4.

With regard to claim 6, Shin et al discloses digital image is one or more associated sub-bands of an original image, and said pixels are coefficients and said wavelet filtering performs an inverse wavelet transform (see col. 7, lines 30-34).

With regard to claim 7, Shin et al discloses repeating retrieving, inputting, computing, outputting, and storing steps in sequence a plurality of times (see col. 2, lines 1-17.

With regard to claims 8-11, Shin et al does not discloses expressly calculating accordance with 5/3 forward wavelet transform and 5/3 inverse wavelet transform, and 9/7 forward wavelet transform and 9/7 inverse wavelet transform. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to calculate

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accordance with 5/3 forward wavelet transform and 5/3 inverse wavelet transform, and 9/7 forward wavelet transform and 9/7 inverse wavelet transform. Applicant has not disclosed these limitations provide an advantage, is used for a particular purpose or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either the above values taught by Shin et al or the claimed above values because both values perform the same function of wavelet transform. Therefore, it would have been obvious to combine to on one ordinary skill in this art to modify Shin et al with to obtain the invention as specified in claims 8-11.

With regard to claim 12, Shen et al discloses plurality of partial results stored in said local storage comprises a pixel and a coefficient (see col. 1, lines 40-44).

With regard to claim 13, Shen et al discloses plurality of partial results stored in said local storage comprises a pixel, intermediate values, and a coefficient (see col. 2, lines 30-35).

Claims 14 and 20 are similarly analyzed as claim 1.

Other Prior Art Cited

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (6,266,450) to Yip et al disclose Encoding method and apparatus.

US Patent No. (6,668,090) to Joshi et al disclose producing a compressed digital image...

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US Patent No. (5,657,416) to Boon discloses apparatus for further compressing

and recording...

US Patent No. (6,069,712) to Dellert et al disclose image handing method and

system...

US Patent No. (5,859,788) to Hou discloses modulated lapped transform method.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-

5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to

6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone

numbers for the organization where this application or proceeding is assigned is (703)

872-9306 for regular communication and (703) 872-9306 for after Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the customer service office whose telephone number

is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

PATENT EXAMINER

Yosef Kassa

06/22/04.

BHAVESH M. MEHTA
SUPERVISORY PATENT EXAMINER

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